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**2024 - 2025**

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| **PRECALCULUS HONORS** |
| **Gay Durham** |
| Room 204 |
| **Office Hours:** Mondays, 2:50 – 3:30 PM |
| **Email:** gdurham@staff.gtchs.org |

**COURSE DESCRIPTION:**

**Prerequisite:** 85% or higher in Algebra 2 Honors

This full year (one credit) honors-level course is a program of mathematical studies, focusing on the development of the student’s ability to understand and apply the study of functions and advanced mathematics concepts to solve problems.

The course will include a study of the following topics:

* Introduction to Trigonometry
* Application of Trigonometry to Triangles
* Graphing Trigonometric Functions with Modeling Applications
* Proving Trigonometric Identities
* Solving Trigonometric Equations
* Polar System, Parametric Equations, and Vectors
* Conic Sections
* Polynomial Functions
* Exponential and Logarithmic Functions
* Rational and Radical Functions
* Limits
* Matrices

Precalculus Honors is project-based. Using graphing calculators, students will engage in problem solving, decision making, critical thinking, and applied learning. The goal is to provide students with the mathematical skills and conceptual understanding necessary for them to further their education at the university level and to apply to their careers. ***Precalculus Honors students will be required to work with more intensity, at a deeper level, mastering and producing a wider range of more complex and difficult material.***



**REQUIRED TEXT:** Demana, Waits, Foley, Kennedy, Bock. *Precalculus: Graphical, Numerical, and Algebraic*. 10th ed. (Pearson Education, Inc.), 2019.



**REQUIRED CLASS MATERIALS:**

1. TI-83 or TI-84 graphing calculator

2. Pen (blue or black ink only) or Pencil

3. Notebook (Loose-leaf with a section reserved for this course)

4. Graph Paper

5. Ruler

6. Colored pencils

7. Textbook

### ATTENDANCE/TARDINESS: Note that a student who misses even a few days of class puts himself/herself at a severe disadvantage. Excessive tardiness is detrimental in the same way as an absence.

### GRADING FOR EACH NINE WEEKS:

Tests/Projects (40%), Quizzes (30%), Class work (20%), Homework (10%).

**GRADING FOR THIS FULL-YEAR COURSE:**

**FIRST SEMESTER: Quarter 1** 45%

**Quarter 2**  45%

**Midterm Exam** 10%

**SECOND SEMESTER:** **Quarter 3** 45%

**Quarter 4**  45%

**Final Exam** 10%

**FINAL GRADE:** **1st Semester** 50%

**2nd Semester** 50%

**OFFICE HOURS: Mondays, 2:50 – 3:30 PM. Other times, by appointment. Please email me to set up office hours.**

The purpose of office hours is to give academic assistance proactively and reactively.  Students will notify their parents in Monday e-mails when their overall and/or quarter average falls below 75% and once again when the grade rises above 75%.  Any student who falls below 75% on a **test** will attend Office Hours in order to be retaught. The student may be able to reassess and earn points back up to, but not to exceed, 75% on test assessments.  The manner of reassessment is up to the teacher’s discretion. A reassessment must be completed within two weeks of the original assessment.  Only test assessments can be reassessed.

**MAKE-UP WORK:** If you are absent from class, you will have five (5) school days (not class meetings) after your return to school to make up missed work. No make-up work will be accepted after this time. GTCHS expects students to turn in their work on time unless they have been absent from school.



**CLASSROOM PROCEDURES:**

1. Have all appropriate materials and supplies at your assigned desk and **be seated** in your assigned desk **before** the bell rings.
2. **Respect** the people, equipment, and furnishings of Room 204.
3. **You may leave the room only with the signed permission** of the instructor **after** filling out the **hall pass** completely by stating the time excused and the destination. Please remember to **visit the restroom before class begins**.
4. **No talking or moving** around the room without permission. **Follow instructions** the first time that they are given.
5. **GTCHS does not tolerate cheating** in any form. Cheating is representing, in any manner, someone else’s work as your own.
6. **Without the instructor’s explicit permission, cell phones, pagers, electronic games, CD players, iPods, or other digital devices** may **not** **be used** in class, may **not be visible** in class, and must be **powered off**. **Earphones and headphones** **may not be worn** in class, **except with the instructor’s explicit permission**. When the aforementioned items are seen and/or heard, they will be confiscated, and the student will be disciplined, as per the rules in the *Student Handbook.*
7. **Gum is prohibited.** The only beverage to be consumed is water stored in a clear, capped container. **Except with the explicit permission of the instructor, no other beverage or food is allowed in class.**
8. It is your responsibility to **study and observe all rules** in the ***Student Handbook***.

**GROUP WORK PROCEDURES:**

1. You may work with your assigned group only.
2. Talking is limited to your group.
3. The subject matter of discussion within your group should pertain only to the task assigned.
4. The noise level should remain low.

→ Group time is a time for you to practice concepts learned in class. Group work promotes your understanding and allows me to work with you on areas of which you are not sure. Most importantly, working in groups enables you to relate mathematical concepts to actual world scenarios.

Hope that you will master, as well as enjoy Precalculus Honors,

and

have a stellar 2024– 2025 year!!

⮚ THIS IS A TENTATIVE SYLLABUS. THE INSTRUCTOR RESERVES THE RIGHT TO MAKE ADJUSTMENTS AS NECESSARY.

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**I Have Read The Guidelines Illustrated Above And Understand The Procedures And Consequences.**

**I Will Abide By These Procedures While In ROOM 204**.

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**STUDENT SIGNATURE**  **DATE**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PRINTED STUDENT NAME**

**PARENTS/GUARDIANS:** **I Have Read And Discussed The Classroom And Group Procedures, Which I Understand And Will Support, With My STUDENT.**

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**PARENT/GUARDIAN SIGNATURE(S) DATE**

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**PRINTED PARENT/GUARDIAN NAME(S)**

**PARENT/GUARDIAN PHONE NUMBER(S): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**PARENT/GUARDIAN EMAIL ADDRESS(ES): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**THANK YOU FOR YOUR COOPERATION,**

**Mrs. Gay Durham**

Please complete and return this page to your instructor at your next class meeting.